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PROCEEDINGS
OF THE
AMERICAN PHILOSOPHICAL SOCIETY
HELD AT PHILADELPHIA FOR PROMOTING USEFUL KNOWLEDGE.

VOL. XXXV.

AUGUST, 1896.

No. 151.

Stated Meeting, May 15, 1896.

The Treasurer, MR. PRICE, in the Chair.

Present, 52 members.

Minutes of May 1 were read and approved.

Letters of envoy from the Geological Survey of India, Calcutta; Observatoire Physique Central, Société Impériale Russe de Géographie, St. Petersburg, Russia; Societas pro Fauna et Flora Fennica, Helsingfors, Finland; Université Royale, Lund, Sweden; K. Sächsische Gesellschaft der Wissenschaften, Leipzig; Bath and West and Southern Counties Society, Bath, Eng.; Royal Observatory, Greenwich, Eng.; Meteorological Office, R. Statistical Society, London, Eng.; Missouri Geological Survey, Jefferson City.

Letters of acknowledgment from R. Zoologisch Gesellschaft "Natura Artis Magistra," Amsterdam, Netherlands (148); Zoöl. Botan. Society, The Hague, Holland (148); Colonial Museum (148); Fondation de P. Teyler van der Hulst, Harlem, Holland (148, and *Trans.* xvi, 1, 2); Maatschappij der Nederlandsche Letterkunde, Leiden, Holland (148); Université Royale, Lund, Sweden (147); Prof. Japetus Steenstrup, Copenhagen, Denmark (148); Musée Royal d'Histoire Naturelle de Belgique, Bruxelles (148); R. and T. Observatory, Prague, Austria (148); Dr. H. Rollett, Baden bei Wien (143, 146-148); K. K. Central Anstalt. für Meteorologie und Erdmagnetismus.

(148); Dr. Aristides Brezina (145); Prof. Gustav Tschermak, Vienna, Austria (142, 144); Anthropologische Gesellschaft, Prof. Dr. Reuleaux, Berlin, Prussia (148); Vogtländische Altertumsforschenden Verein, Hohenleuben, Saxony (148); Dr. O. Böttlingk, Prof. I. Victor Carus, Leipzig, Saxony (148); K. Sternwarte (148), Dr. Paul Thyse, Munich, Bavaria (147, 148); K. Geodätische Institut, Potsdam, Prussia (148); Institut de France, Dr. E. T. Hamy, Profs. Gaston Maspero, Leon de Rosny, Paris, France (148); Mr. Samuel Timmins, Arley, Coventry, Eng. (148); Profs. C. A. M. Fennell, R. T. Glazebrook, J. P. Postgate, Cambridge, Eng. (148); Phil. and Lit. Society, Leeds, Eng.; Royal Society, Victoria Institute, R. Astronomical Society, R. Meteorological Society, R. Geological Society, Royal Institution, R. Geographical Society, Society of Antiquaries, R. Statistical Society, Sir Henry Bessemer, Col. William Ludlow, Sir James Paget, Prof. W. C. Unwin, London, Eng. (148); Geographical Society, Manchester, Eng. (148); Lit. and Phil. Society, New Castle-on-Tyne, Eng. (148); Radcliffe Observatory, Prof. James Ligge, Oxford, Eng. (148); R. Geological Society of Cornwall, Penzance, Eng. (148); Dr. Isaac Roberts, Starfield, Crowborough, Sussex, Eng. (148); Nat. Hist. and Phil. Society, Belfast, Ireland (148); Royal Society, Prof. James Geikie, Edinburgh, Scotland (148); Society of Natural History, Portland, Me. (148, 149); Mass. Agricultural College, Amherst (149); Prof. Alpheus Hyatt, Dr. Justin Winsor, Cambridge, Mass. (149); Amer. Antiquarian Society, Worcester, Mass. (149); Amer. Mathematical Society (148), Amer. Institute Electrical Engineers, New York, N. Y. (149), Prof. Lyman B. Hall, Haverford, Pa. (149); Prof. John F. Carll, Pleasantville, Pa. (149); Philosophical Society, West Chester, Pa. (148); U. S. Naval Institute, Annapolis, Md. (148, 149); Maryland Historical Society, Baltimore (149); Smithsonian Institution, Washington, D. C. (144, 145, 146); N. C. Experiment Station, Raleigh (149); Ohio State Archæol. and Hist. Society, Columbus (149); Prof. H. T. Eddy, Minneapolis, Minn. (147-149); Kansas Historical Society, Topeka (149); Observatorio Astronómico Mex-

icano, Tambaya, Mexico (149); Rt. Rev. Crescencio Carrillo, Merida, Yucatan (149); Société Scientifique du Chili, Santiago (141).

Letters of acknowledgment (*Transactions*) from the Museum of Comparative Zoölogy, Cambridge, Mass.; Amer. Antiquarian Society, Worcester, Mass.; Yale University, New Haven, Conn.; The Buffalo Library, Buffalo, N. Y.; Historical Society, Astor Library, New York, N. Y.; U. S. Military Academy, West Point, N. Y.; Haverford College, Haverford, Pa.; Academy Nat. Sciences, Historical Society of Pennsylvania, Library Company, Philadelphia (xviii, 3); Johns Hopkins University, Baltimore, Md. (xvi, 2, 3; xvii, 1, 2, 3; xviii, 1, 2, 3).

Accessions to the Library were reported from the Société des Naturalistes, Kieff, Russia; Société des Naturalistes, Moscow, Russia; K. Russische Geog. Gesellschaft, Phys. Central Observatoriums, K. Mineralogische Gesellschaft, St. Petersburg, Russia; Societas pro Fauna et Flora Fennica, Helsingfors, Finland; I. R. Accad. di Scienze, Lettere, etc., Degli Agratis Roveredo, Austria; K. P. Meteorol. Institut, K. Museums für Völkerkunde, Gesellschaft für Anthropologie, Ethnologie, etc.; Prof. A. Bastian, Berlin, Prussia; Direcção Trabalhos Geologicos de Portugal, Lisboa; Instituto y Observatorio de Marina, San Fernando, Spain; Bath and West and Southern Counties Society, Bath, Eng.; Royal Observatory, Greenwich, Eng.; Literary and Philosophical Society, Liverpool, Eng.; Literary and Philosophical Society, Manchester, Eng.; Hon. J. M. Lemoine, Quebec, Canada; Free Library, Boston, Mass.; Zoölogical Society, Mr. William A. Ingham, Philadelphia; Chief of Engineers, Committee to Establish the University of the United States, Department of Labor, Prof. Alexander Graham Bell, Washington, D. C.; Missouri Geological Survey, Jefferson City; University of Michigan, Ann Arbor; Agricultural Experiment Stations, Lafayette, Ind.; Brookings, S. Dak.; Observatorio Meteorol., Leon, Mexico; Direccion General de Estadistica, Guatemala, C. A.; Museo Biblioteca de Filipinas, Manilla.

Dr. Morris, of the Curators, called attention to photographs presented by Mrs. Stevenson of the relics found in Egypt.

Also, on behalf of Robert Patterson Field, he presented a portrait in oil of Dr. Robert M. Patterson.

The Report of Council was read, in which nominations 1332, 1334, 1357, were recommended to be postponed for written information.

The resolution presented at the meeting of March 20 was recommended for approval, amended to read as follows:

Resolved, That papers by non-members presented to the Society shall be read by title only, except when the author is present or by consent of two-thirds the members present.

Prof. A. H. Smyth then read an obituary notice of Henry Phillips, Jr.

The stated business being the election of members, Secretary DuBois and Dr. Hays were made Tellers. The names were read and spoken to and the ballots cast.

The following papers were then read by title and referred to the Secretaries:

"Second Contribution to the History of the Cotylosauria" by E. D. Cope; "Sixth Contribution to the Knowledge of the Marine Miocene Fauna," by E. D. Cope; "On Natural Selection and Separation," by Arnold E. Ortman; "Notes on the Osteology of the White River Horses," by Marcus S. Farr.

Dr. Frazer announced that Mr. Barkley had brought from New York specimens of results of color photography according to the system of Mr. Joly, and had placed them in Mr. Sachse's hands.

Mr. Sachse then explained the system and exhibited the specimens.

Dr. Frazer then advocated the reproduction in *facsimile* of our signature book for distribution among the members, and the matter was referred to the Secretaries with power to act.

The Tellers reported the result of the ballot, and the following were declared elected:

2282. Edward S. Dana, New Haven, Conn.

- 2283. C. Hanford Henderson, Ph.D., Philadelphia.
- 2284. Chas. Sedgwick Minot, Harvard Univ., Mass.
- 2285. L. H. Bailey, Ithaca, N. Y.
- 2286. Wm. H. Welch, M.D., Baltimore, Md.
- 2287. T. Mitchell Prudden, M.D., New York City.
- 2288. John Trowbridge, Harvard Univ., Mass.
- 2289. Nikola Tesla, New York City.
- 2290. Arthur W. Wright, Ph.D., New Haven, Conn.
- 2291. Prof. Henry A. Rowland, Baltimore, Md.
- 2292. Prof. Arthur W. Goodspeed, Philadelphia.
- 2293. Prof. Michael I. Pupin, New York City.
- 2294. Thos. A. Edison, Orange, N. J.
- 2295. Edw. C. Pickering, Cambridge, Mass.
- 2296. Frank H. Cushing, Washington, D. C.

The Joly Process of Color Photography.

By Julius F. Sachse.

(Read before the American Philosophical Society, May 15, 1896.)

I have the honor to present to your notice this evening, by courtesy of Mr. Richard Barkley, of New York, a series of specimens illustrating the so-called "Joly" process of color-photography.

They are the same as were lately shown before the Royal Society of England, and excited considerable attention.

This process, although it depends upon the three primary color sensations, differs materially from all others thus far brought to the notice of the public, because but a single photographic manipulation is required, and no apparatus is needed other than such as is used in ordinary every-day photography.

This process consists in making a negative through a closely-lined screen, ruled in three colors, viz., orange, yellow-green and blue-violet. The screens used in the specimens here shown were made with an ordinary ruling pen, such as is used by draughtsmen, and the lines number about two hundred to the inch. A finer ruling in the future will make the lines which we now see in the specimens before us less prominent.

It will be noticed that Prof. Joly, in his "taking" screen, which is here before you, has substituted, for the usually accepted primary color